

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636230

Luminaire Tested: GWS-SA3F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-735-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14966 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

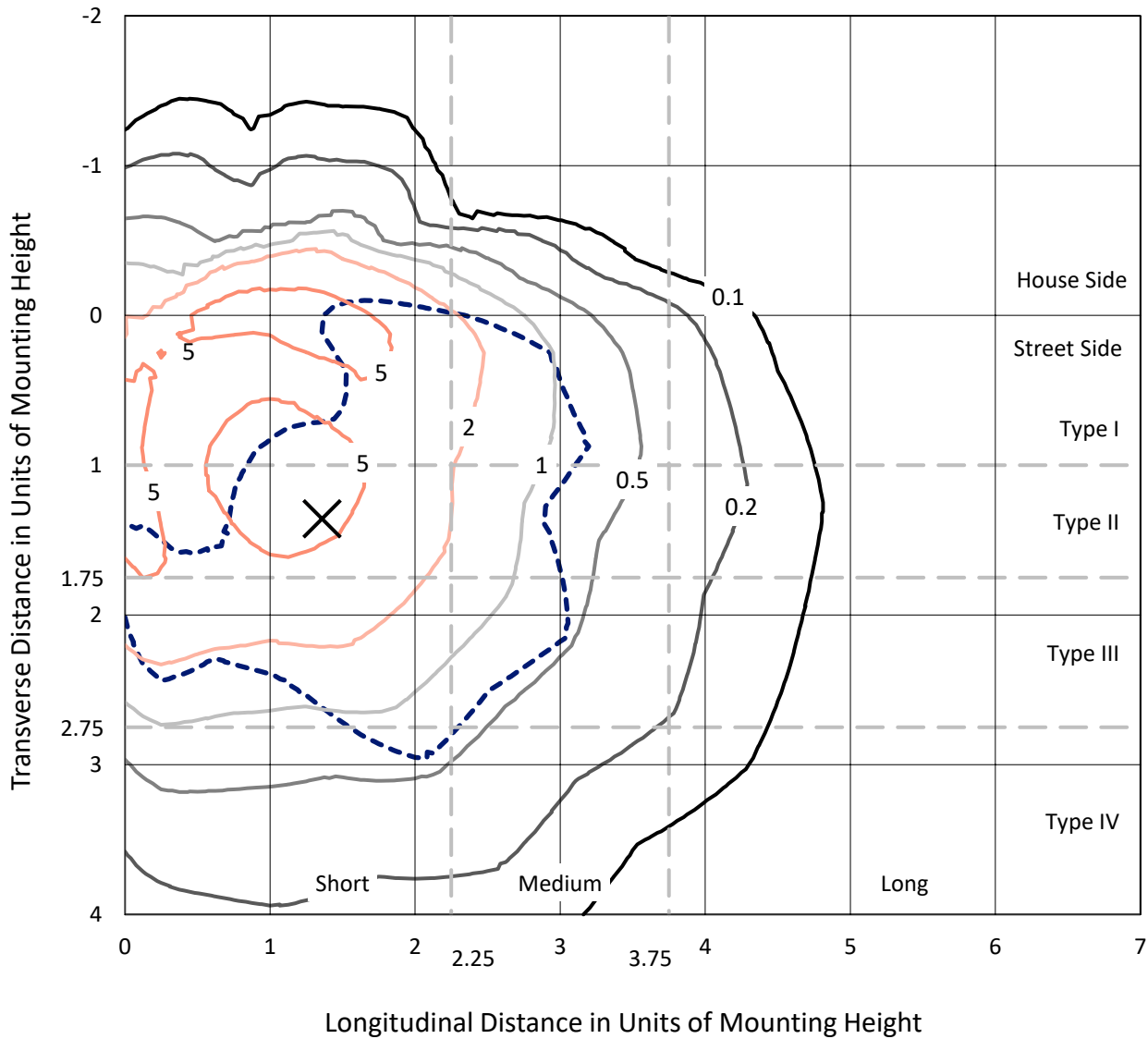
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

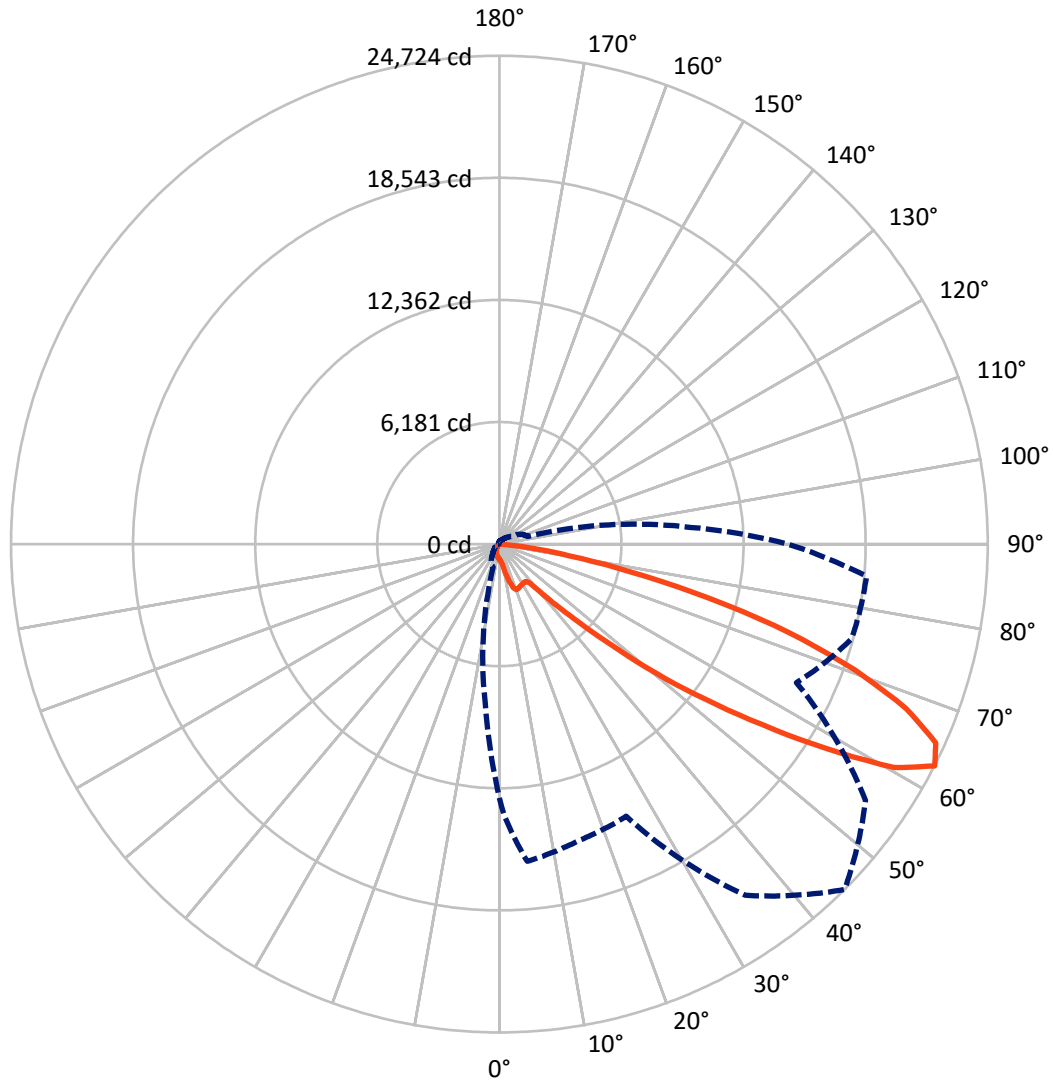
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1846.8	0.0	1846.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13119.2	0.0	13119.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	14966.0	0.0	14966.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	0.5
10°-20°	260.9	1.7
20°-30°	567.2	3.8
30°-40°	931.0	6.2
40°-50°	1711.5	11.4
50°-60°	3675.4	24.6
60°-70°	4936.7	33.0
70°-80°	2570.6	17.2
80°-90°	243.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14966.0	100.0
0°-180°	14966.0	100.0

Coefficient of Utilization



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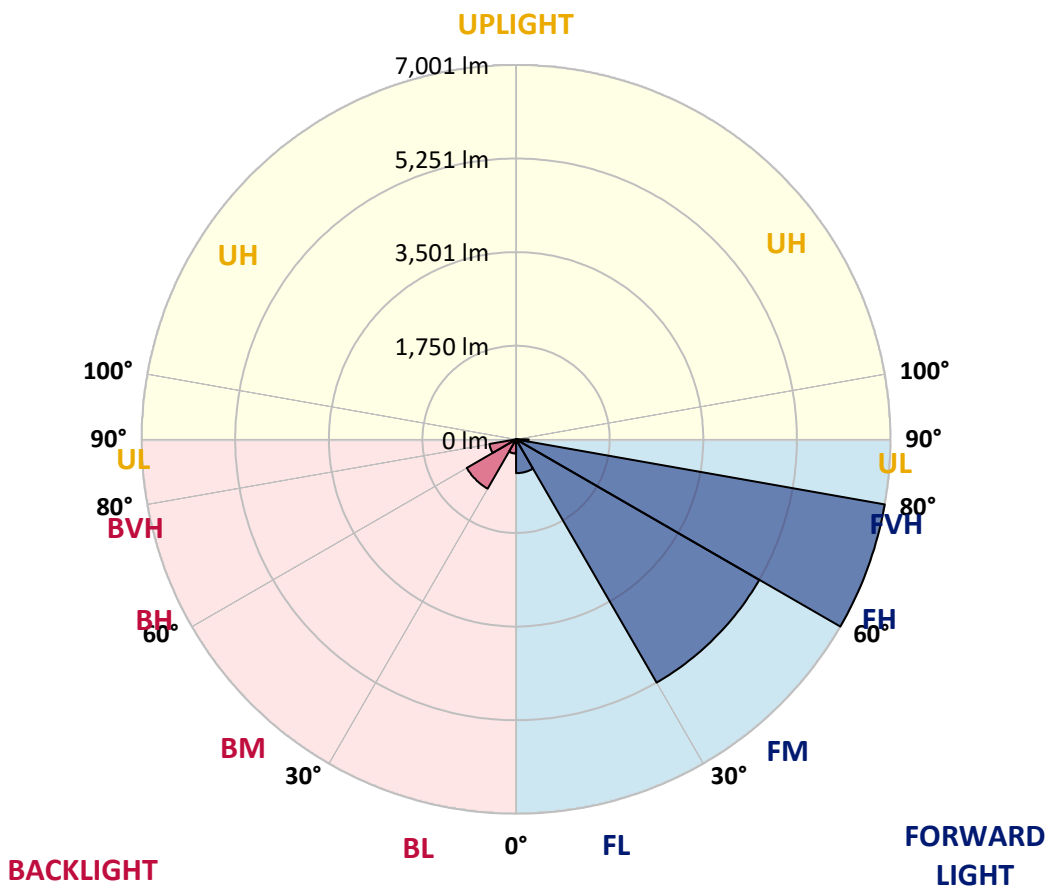
CATALOG NUMBER: GWS-SA3F-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.2	4.2			
FM (30°-60°)	5252.9	35.1			
FH (60°-80°)	7001.2	46.8			G3/7500
FVH (80°-90°)	232.9	1.6			G3/500
BL (0°-30°)	264.9	1.8	B1/500		
BM (30°-60°)	1065.0	7.1	B2/2500		
BH (60°-80°)	506.0	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9
2.5°	793.5	796.9	800.4	812.5	821.1	828.1	829.8	824.6	812.5	800.4	783.1
5°	769.3	772.7	784.8	817.7	850.5	876.5	885.1	879.9	850.5	812.5	772.7
7.5°	767.5	774.5	803.8	873.0	943.9	997.5	1011.3	999.2	943.9	867.8	786.6
10°	829.8	841.9	885.1	1009.6	1139.2	1234.3	1272.3	1220.5	1132.3	994.0	860.9
12.5°	992.3	1013.0	1096.0	1277.5	1478.0	1604.2	1656.1	1592.1	1453.8	1253.3	1042.4
15°	1248.1	1279.2	1403.7	1675.1	1912.0	2024.3	2041.6	2005.3	1844.5	1623.3	1339.7
17.5°	1609.4	1654.4	1848.0	2124.6	2295.7	2335.5	2330.3	2292.3	2174.7	2022.6	1754.6
20°	2041.6	2095.2	2285.4	2513.5	2530.8	2484.2	2458.2	2435.8	2396.0	2370.1	2160.9
22.5°	2477.2	2542.9	2741.7	2798.8	2643.2	2508.4	2444.4	2461.7	2520.5	2648.4	2563.7
25°	2911.1	2973.4	3160.1	3006.2	2695.1	2470.3	2389.1	2430.6	2570.6	2847.2	2956.1
27.5°	3417.7	3464.3	3575.0	3148.0	2703.7	2439.2	2359.7	2423.6	2594.8	2971.6	3386.5
30°	3944.9	3972.6	3919.0	3186.0	2674.3	2392.5	2330.3	2423.6	2636.3	3054.6	3709.8
32.5°	4332.1	4337.3	4162.7	3189.5	2658.8	2354.5	2302.6	2413.3	2676.0	3123.8	4022.7
35°	4731.5	4705.5	4396.1	3241.3	2700.2	2368.3	2323.4	2442.7	2738.3	3205.0	4297.6
37.5°	5136.0	5089.3	4657.1	3326.0	2807.4	2518.7	2491.1	2593.1	2838.5	3317.4	4600.1
40°	5550.9	5486.9	4928.5	3454.0	3046.0	3030.4	3125.5	3113.4	3113.4	3460.9	4911.3
42.5°	6057.4	5983.1	5329.6	3815.3	3602.6	3950.1	4209.4	4048.6	3751.3	3791.1	5315.8
45°	6726.4	6662.4	6024.5	4506.7	4475.6	5274.3	5623.5	5305.4	4565.5	4553.4	5991.7
47.5°	7796.5	7784.4	7132.7	5308.9	5544.0	6959.8	7634.0	7022.0	5493.8	5360.7	7270.9
50°	9300.5	9264.1	8513.9	6249.3	6814.6	9048.1	10251.2	9231.3	6615.8	6302.9	8984.1
52.5°	10994.6	11032.6	10448.3	7276.1	8164.7	11371.4	13046.6	11762.1	7834.5	7500.9	11139.8
55°	12590.2	12808.0	12654.1	8477.6	9483.7	13936.8	16116.7	14538.4	9343.7	9068.8	13556.5
57.5°	13838.3	14452.0	15530.7	10223.6	11034.3	16937.9	19544.8	17548.1	11105.2	11615.2	16846.3
60°	13907.5	14720.0	17224.8	13876.3	13029.3	19511.9	22967.6	20488.7	13874.6	15938.7	19423.8
62.5°	12865.0	13736.3	16121.9	15535.9	15202.3	21702.2	24724.0	22632.2	16599.1	18471.2	18659.7
65°	11672.2	12552.2	14891.1	13653.3	14949.9	21608.9	24278.0	22682.4	16846.3	16749.5	17292.3
67.5°	9869.2	10659.2	12776.9	12085.4	13779.5	20566.4	22217.4	21252.7	15520.3	15665.6	15907.6
70°	7203.5	7964.2	9929.7	9964.3	12033.5	18687.3	19090.1	18957.0	14293.0	14446.8	13755.3
72.5°	5203.4	5844.8	7540.6	8171.6	9606.4	15670.7	15392.4	15905.8	12263.5	12866.8	11048.2
75°	3740.9	4221.5	5531.9	7108.4	7615.0	11637.7	11018.8	12318.8	9839.8	11079.3	8306.4
77.5°	1517.8	1687.2	2176.4	4788.5	5004.6	7829.3	6745.4	8947.8	7015.1	7279.6	4026.2
80°	62.2	69.1	89.9	2472.1	3431.5	4404.7	3609.5	4783.3	4632.9	2931.9	950.8
82.5°	6.9	6.9	15.6	712.2	1502.2	2430.6	1701.0	2755.6	2345.9	1242.9	432.2
85°	1.7	1.7	3.5	81.2	352.7	389.0	229.9	845.3	1090.8	508.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	15.6	17.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9
2.5°	783.1	774.5	764.1	753.7	748.5	734.7	729.5	726.1	722.6	724.3	724.3
5°	757.2	738.2	715.7	693.2	681.1	667.3	660.4	656.9	658.6	665.6	665.6
7.5°	753.7	717.4	669.0	639.6	625.8	615.4	608.5	605.0	606.8	615.4	618.9
10°	810.8	746.8	660.4	610.2	594.7	584.3	577.4	572.2	568.7	575.7	577.4
12.5°	933.5	845.3	701.9	606.8	579.1	565.3	560.1	549.7	544.5	548.0	549.7
15°	1187.6	1035.5	784.8	620.6	565.3	549.7	541.1	532.4	523.8	522.1	523.8
17.5°	1519.5	1301.7	911.0	653.5	554.9	535.9	523.8	511.7	499.6	497.9	496.1
20°	1931.0	1628.4	1087.4	705.3	546.3	523.8	506.5	489.2	473.7	468.5	468.5
22.5°	2306.1	2022.6	1313.8	769.3	534.2	506.5	485.8	465.0	447.7	439.1	437.4
25°	2764.2	2440.9	1585.2	843.6	516.9	484.0	461.6	440.8	423.5	413.2	409.7
27.5°	3225.8	2881.8	1892.9	940.4	496.1	461.6	440.8	421.8	402.8	390.7	387.2
30°	3673.5	3357.2	2238.7	1061.4	480.6	439.1	421.8	402.8	385.5	366.5	361.3
32.5°	4154.1	3842.9	2625.9	1196.3	468.5	423.5	404.5	387.2	364.8	347.5	338.8
35°	4617.4	4344.2	3052.9	1327.6	456.4	409.7	389.0	371.7	347.5	328.5	316.4
37.5°	5084.1	4854.2	3498.9	1407.2	439.1	390.7	371.7	357.8	330.2	307.7	293.9
40°	5578.5	5381.5	3981.2	1374.3	423.5	369.9	359.6	344.0	312.9	287.0	269.7
42.5°	6121.4	5884.5	4472.2	1248.1	409.7	352.7	342.3	326.7	297.3	266.2	243.7
45°	6804.2	6436.0	4875.0	1058.0	416.6	335.4	314.6	311.2	283.5	243.7	216.1
47.5°	7978.0	7283.0	5187.9	935.2	463.3	316.4	292.2	300.8	271.4	221.3	190.2
50°	9774.1	8686.8	5480.0	926.6	534.2	307.7	271.4	293.9	259.3	198.8	167.7
52.5°	11485.5	10112.9	5666.7	1002.7	596.4	330.2	250.7	285.2	250.7	183.2	152.1
55°	13122.6	10935.8	5333.1	1058.0	655.2	397.6	235.1	271.4	240.3	174.6	146.9
57.5°	14887.6	11302.3	4199.0	1170.3	696.7	454.7	238.6	250.7	226.5	169.4	145.2
60°	15414.9	10833.8	2534.3	1317.3	674.2	471.9	264.5	223.0	207.4	159.0	140.0
62.5°	14595.5	9722.3	1495.3	1199.7	655.2	446.0	302.5	205.7	188.4	145.2	129.7
65°	13369.8	8213.1	975.0	1013.0	694.9	397.6	321.5	197.1	171.1	131.4	114.1
67.5°	11969.6	6615.8	682.8	598.1	641.4	357.8	271.4	195.3	153.9	110.6	93.4
70°	10081.8	4954.5	480.6	395.9	534.2	318.1	210.9	190.2	134.8	89.9	72.6
72.5°	7789.6	3101.3	357.8	255.8	380.3	259.3	167.7	160.8	108.9	74.3	55.3
75°	5744.5	1768.5	252.4	185.0	250.7	197.1	124.5	114.1	93.4	70.9	50.1
77.5°	2999.3	885.1	157.3	141.8	143.5	122.7	89.9	83.0	86.4	70.9	46.7
80°	575.7	176.3	95.1	103.7	77.8	77.8	65.7	69.1	76.1	57.0	39.8
82.5°	240.3	38.0	51.9	58.8	48.4	53.6	53.6	55.3	53.6	41.5	29.4
85°	0.0	0.0	22.5	24.2	32.8	32.8	27.7	27.7	27.7	24.2	17.3
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	10.4	12.1	13.8	10.4	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9
2.5°	722.6	719.1	724.3	727.8	731.2	731.2	727.8	724.3	719.1	724.3	719.1
5°	667.3	672.5	681.1	684.6	688.0	681.1	677.7	667.3	658.6	660.4	656.9
7.5°	624.1	629.2	639.6	646.5	646.5	643.1	632.7	622.3	608.5	608.5	606.8
10°	584.3	591.2	603.3	612.0	615.4	612.0	601.6	587.8	575.7	575.7	570.5
12.5°	551.5	560.1	573.9	586.0	589.5	586.0	575.7	561.8	548.0	548.0	544.5
15°	523.8	534.2	549.7	563.6	568.7	563.6	551.5	534.2	520.3	522.1	516.9
17.5°	497.9	506.5	527.3	542.8	548.0	542.8	527.3	504.8	491.0	494.4	491.0
20°	468.5	478.9	499.6	516.9	522.1	516.9	499.6	475.4	461.6	461.6	463.3
22.5°	437.4	447.7	468.5	480.6	487.5	482.3	465.0	442.5	428.7	428.7	430.4
25°	409.7	414.9	430.4	442.5	444.3	439.1	425.3	408.0	397.6	402.8	404.5
27.5°	383.8	383.8	390.7	397.6	395.9	390.7	385.5	371.7	369.9	375.1	380.3
30°	356.1	347.5	344.0	338.8	337.1	335.4	340.6	340.6	344.0	350.9	356.1
32.5°	331.9	314.6	299.1	283.5	274.9	281.8	295.6	307.7	319.8	330.2	335.4
35°	304.3	276.6	250.7	229.9	216.1	226.5	248.9	271.4	292.2	306.0	314.6
37.5°	276.6	236.8	205.7	179.8	169.4	178.1	202.3	233.4	264.5	281.8	293.9
40°	247.2	197.1	160.8	140.0	129.7	138.3	162.5	193.6	235.1	257.6	273.1
42.5°	217.8	162.5	129.7	108.9	103.7	108.9	127.9	159.0	204.0	231.6	252.4
45°	188.4	134.8	103.7	88.2	83.0	88.2	103.7	129.7	174.6	205.7	229.9
47.5°	162.5	114.1	86.4	72.6	69.1	74.3	86.4	108.9	146.9	178.1	205.7
50°	141.8	100.3	74.3	62.2	58.8	64.0	74.3	91.6	124.5	152.1	181.5
52.5°	127.9	93.4	65.7	53.6	51.9	55.3	64.0	77.8	105.5	129.7	157.3
55°	124.5	93.4	60.5	48.4	46.7	50.1	57.0	67.4	91.6	112.4	136.6
57.5°	127.9	100.3	57.0	41.5	39.8	43.2	50.1	58.8	79.5	96.8	119.3
60°	127.9	102.0	50.1	32.8	31.1	34.6	41.5	51.9	70.9	84.7	103.7
62.5°	115.8	93.4	41.5	25.9	22.5	25.9	34.6	43.2	62.2	76.1	91.6
65°	100.3	79.5	34.6	19.0	15.6	19.0	27.7	36.3	53.6	65.7	83.0
67.5°	81.2	60.5	25.9	13.8	10.4	13.8	20.7	29.4	44.9	57.0	74.3
70°	60.5	43.2	20.7	12.1	10.4	12.1	19.0	27.7	39.8	51.9	69.1
72.5°	44.9	29.4	17.3	12.1	8.6	12.1	17.3	25.9	38.0	50.1	65.7
75°	38.0	24.2	15.6	10.4	8.6	10.4	15.6	24.2	34.6	46.7	62.2
77.5°	36.3	22.5	13.8	8.6	6.9	8.6	13.8	20.7	31.1	43.2	60.5
80°	31.1	19.0	12.1	6.9	5.2	6.9	12.1	17.3	24.2	32.8	46.7
82.5°	24.2	15.6	8.6	3.5	1.7	3.5	8.6	10.4	15.6	19.0	27.7
85°	15.6	8.6	3.5	0.0	0.0	0.0	3.5	6.9	6.9	8.6	13.8
87.5°	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.5	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9	777.9
2.5°	729.5	731.2	734.7	739.9	752.0	762.4	772.7	786.6	793.5	793.5
5°	660.4	662.1	663.8	670.7	688.0	701.9	724.3	752.0	765.8	769.3
7.5°	606.8	610.2	613.7	618.9	636.2	655.2	684.6	736.4	762.4	767.5
10°	575.7	580.8	587.8	598.1	613.7	634.4	684.6	777.9	821.1	829.8
12.5°	551.5	560.1	567.0	579.1	598.1	631.0	731.2	895.5	971.5	992.3
15°	527.3	537.6	548.0	560.1	580.8	643.1	821.1	1106.4	1232.6	1248.1
17.5°	503.1	515.2	529.0	542.8	568.7	672.5	962.9	1398.5	1574.9	1609.4
20°	475.4	491.0	510.0	527.3	556.6	719.1	1160.0	1746.0	1967.3	2041.6
22.5°	446.0	465.0	487.5	510.0	542.8	776.2	1398.5	2119.4	2428.8	2477.2
25°	421.8	440.8	461.6	484.0	520.3	845.3	1687.2	2582.7	2864.5	2911.1
27.5°	399.3	418.3	437.4	458.1	497.9	935.2	2034.7	3075.4	3369.3	3417.7
30°	375.1	397.6	416.6	437.4	477.1	1045.9	2435.8	3621.6	3900.0	3944.9
32.5°	354.4	376.9	395.9	416.6	461.6	1166.9	2857.6	4105.7	4332.1	4332.1
35°	337.1	361.3	375.1	402.8	449.5	1244.7	3256.9	4567.2	4738.4	4731.5
37.5°	318.1	347.5	357.8	376.9	433.9	1253.3	3632.0	5054.7	5180.9	5136.0
40°	299.1	330.2	345.7	356.1	416.6	1182.4	4043.4	5502.5	5609.7	5550.9
42.5°	281.8	306.0	328.5	340.6	406.2	1058.0	4373.6	5981.3	6109.3	6057.4
45°	264.5	285.2	299.1	321.5	413.2	971.5	4657.1	6539.7	6764.4	6726.4
47.5°	247.2	264.5	273.1	307.7	459.8	931.8	4830.0	7404.1	7827.6	7796.5
50°	228.2	248.9	248.9	304.3	529.0	945.6	4980.4	8655.6	9310.8	9300.5
52.5°	209.2	231.6	228.2	330.2	582.6	1009.6	5151.6	9760.3	10899.5	10994.6
55°	190.2	210.9	214.4	382.0	613.7	1064.9	4489.5	10225.3	12256.5	12590.2
57.5°	169.4	181.5	223.0	421.8	603.3	1225.7	3075.4	10310.0	13122.6	13838.3
60°	146.9	157.3	252.4	413.2	570.5	1132.3	1936.2	9549.4	12999.9	13907.5
62.5°	127.9	145.2	266.2	364.8	580.8	981.9	1234.3	8138.8	11829.6	12865.0
65°	112.4	140.0	242.0	330.2	587.8	665.6	833.2	6621.0	10686.9	11672.2
67.5°	100.3	155.6	198.8	293.9	504.8	468.5	572.2	5144.6	8985.8	9869.2
70°	91.6	159.0	162.5	252.4	390.7	300.8	376.9	3462.6	6194.0	7203.5
72.5°	83.0	117.6	122.7	202.3	252.4	183.2	243.7	1981.1	4515.4	5203.4
75°	79.5	79.5	84.7	131.4	140.0	133.1	157.3	1182.4	3237.9	3740.9
77.5°	74.3	60.5	53.6	84.7	76.1	95.1	93.4	525.5	1403.7	1517.8
80°	58.8	43.2	36.3	53.6	51.9	64.0	55.3	43.2	64.0	62.2
82.5°	36.3	27.7	25.9	32.8	29.4	32.8	25.9	6.9	6.9	6.9
85°	17.3	15.6	13.8	13.8	15.6	13.8	10.4	3.5	1.7	1.7
87.5°	8.6	8.6	6.9	5.2	6.9	6.9	5.2	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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